

What is Energy? Notes Review

Name: _____ Date: _____

Table Role: _____ Section: _____

- 1) How are energy, work, and power related?
- 2) If a handsaw does the same amount of work on a log as a chainsaw does, which has great power and why?
- 3) Define Kinetic and Potential Energy.
- 4) What factors affect an object's kinetic energy?
- 5) At a given height above Earth, how would you determine the kinetic energy and the potential energy of a sky diver?

Performance Task: Gravitational Potential Energy

Materials

Meter Stick

Golf Ball

Procedure

Step 1: Hold a meter stick vertically, the the zero end on the ground.

Step 2: Drop a golf ball from the 50-cm mark and record the height to which it bounces.

Step 3: Drop the golf ball from the 100 - cm mark and record the height to which it bounces.

Step 4: Predict how high the ball will bounce if dropped form the 75 - cm mark.

Predicted height: _____

Actual height: _____

Height	Bounce height
50	
100	

Analyze & Conclude

1) How does the height from which you drop the ball relate to the height to which the ball bounces?

2) How similar do you think the bounce height would be if you dropped a tennis ball instead of a golf ball?

3) How does gravitational potential energy relate to what this demonstration does?